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## PATENT ABSTRACTS OF JAPAN

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**F16K 11/04**(21) Application number: **56195720**(71) Applicant: **SAGINOMIYA SEISAKUSHO INC**(22) Date of filing: **07.12.81**(72) Inventor: **HIRATA KAZUO****(54) TWO-POSITION OPERATION THREE-WAY VALVE****(57) Abstract:**

**PURPOSE:** To obtain the stable operation in a captioned valve provided with a ball valve of a magnetic body between two outlet side connecting pipes set horizontally by providing a convex part projected inward at the intermediate part between two connecting pipes for preventing the ball valve from stopping at the intermediate part.

**CONSTITUTION:** Outlet side connecting pipes B and C made of nonmagnetic bodies are horizontally set, while an inlet side connecting pipe A is connected upward and vertically in an inverse T-shape on the intermediate part between both connecting pipes B and C. In connecting pipes B and C, valve seats (b) and (c) of non-magnetic bodies are respectively fixed by caulking 3 or other processes, and in a horizontal pipeline D between both valve seats (b) and (c), a ball valve 1 made of a magnetic body is rotatably contained for constructing a three-way valve. In this three-way valve, at the bottom of a horizontal pipeline D on the extension of the inlet side connecting pipe A, a convex part 2 is projected to check the stoppage of the ball valve 1. This construction prevents the ball valve 1 from being placed at the center between valve seats (b)

and (c), and stabilizes the operation of switching between two positions by the ball valve.

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